



Docket No.: 13761 US3 (C038435/0174681)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of :)
Yasuhiro FURUICHI, *et al.*)
Serial No.: 10/763,933) Examiner: Not yet assigned
Filed: January 23, 2004) Art Unit: Not yet assigned
For: **BIOTIN BIOSYNTHETIC GENES**)

New York, New York
April 22, 2004

INFORMATION DISCLOSURE STATEMENT UNDER RULE 1.56

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Applicants wish to make of record the following documents (Form PTO-1449 is enclosed). Copies of these documents are not being submitted herewith, because each was made of record in Parent Application Serial Nos. 10/033,078, filed December 27, 2001; 09/594,185, filed June 14, 2000, now U.S. Patent No. 6,365,388; and 08/935,263, filed September 22, 1997, now U.S. Patent No. 6,117,669 to which the present application claims benefit under 35 USC §120. See, 37 CFR 1.98(d).

U.S. PATENT DOCUMENTS

A1	5,096,823
A2	5,922,581
A3	6,361,978
A4	6,277,609

FOREIGN PATENT DOCUMENTS

B1	EP 0 747 483
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B2	EP 0 635 572
B3	EP 0 799 895
B4	WO 94/08023
B5	WO 87/01391
B6	EP 0 375 525

OTHER DOCUMENTS

- C1 Cleary, *et al.*, "Deletion and Complementation Analysis of the Biotin Gene Cluster of *Escherichia Coli*," J. Bacterial., 112:830-839 (1972)
- C2 Barker, *et al.*, "Use of bio-lac Fusion Strains to Study Regulation of Biotin Biosynthesis in *Escherichia Coli*," J. Bacterial., 143:789-800 (1980)
- C3 Tanaka, *et al.*, "Site-Specific In vitro Binding of Plasmid pUB110 to *Bacillus subtilis* Membrane Fraction," J. Bacteriol., 154:1184-1194 (1983)
- C4 Otsuka, *et al.*, "The *Escherichia coli* Biotin Biosynthetic Enzyme Sequences Predicted from the Nucleotide Sequence of the bio Operon," J. Biol. Chem., 263:19577-19585 (1988)
- C5 Smith, "In vitro Mutagenesis," Ann. Rev. Genet., 19:423-462 (1985)
- C6 Haima, *et al.*, "The Effect of Restriction on Shotgun Cloning and Plasmid Stability in *Bacillus subtilis* Marburg," Mol. Gen. Genet., 209:335-342 (1987)
- C7 Maniatis, *et al.*, "Transformation of *Escherichia Coli* by Plasmid DNA," Molecular Cloning, Cold Spring Harbor Laboratory Press, New York, pp. 252-253 (1982)
- C8 Derwent Abstract No. 86-216622 of Japanese Patent Kokai 149091/1986
- C9 Derwent Abstract No. 87-231579 of Japanese Patent Kokai 155081/1987
- C10 Derwent Abstract No. 90-226023 of Japanese Patent Kokai 180174/1991
- C11 Derwent Abstract No. 90-072971 of Japanese Patent Kokai 27980/1990
- C12 Derwent Abstract No. 91-358298 of Japanese Patent Kokai 240489/1991
- C13 Derwent Abstract of EP 375 525
- C14 Gloeckler *et al.* Accession A025679 (1994)
- C15 Ponting, C.P., "Issues in Predicting Protein Function from Sequence," Brief. Bioinform., 2(1):19-29 (2001)

C16 Attwood, T.K., *et al.* " Which Craft is Best in Bioinformatics?" Comput. Chem., 25(4):329-339 (2001)

Applicants request that these documents be considered by the Examiner before issuance of a first office action on the merits and made of record in this file. The Examiner is also asked to initial and return a copy of the enclosed PTO-1449 form to evidence such consideration.

This Information Disclosure Statement is being filed in accordance with the following provisions:

- [x] CFR § 1.97(b)(1) Within three months of the filing date of the national application. No fee is required.

If it is determined that a fee is required as set forth in 37 CFR § 1.17(p) or 1.17(i)(1), or if any additional fees are required, please charge such fee to Deposit Account No. 02-4467. A duplicate copy of this document is enclosed.

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450, on April 22, 2004.


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Respectfully submitted,

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Form PTO-1449 (Rev.)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 13761 US3 (C038435/0174681)	SERIAL NO. 10/763,933
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		APPLICANT Yasuhiro FURUICHI, <i>et al.</i>	
(Use several sheets if necessary)		FILING DATE January 23, 2004	GROUP not yet assigned

U.S. PATENT DOCUMENTS

Examiner Initial	Cite No.	U.S. Patent Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
	A1	5,096,823	3/1992	Gloeckler, <i>et al.</i>			
	A2	5,922,581	7/1999	Hoshino, <i>et al.</i>			
	A3	6,361,978	3/26/02	Hoshino, <i>et al.</i>			
	A4	6,277,609	8/2001	Eddy			

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		Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No
	B1	EP 0 747 483	12/1996	Europe				
	B2	EP 0 635 572	1/1995	Europe				
	B3	EP 0 799 895	10/1997	Europe				
	B4	WO 94/08023	4/1994	PCT				
	B5	WO 87/01391	3/1987	PCT				
	B6	EP 0 375 525	6/1990	Europe				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	C1	Cleary, <i>et al.</i> , "Deletion and Complementation Analysis of the Biotin Gene Cluster of <i>Escherichia Coli</i> ," <u>J. Bacteriol.</u> , 112:830-839 (1972)
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	C3	Tanaka, <i>et al.</i> , "Site-Specific In vitro Binding of Plasmid pUB110 to <i>Bacillus subtilis</i> Membrane Factor," <u>J. Bacteriol.</u> , 154: 1184-1194 (1983)
	C4	Otsuka, <i>et al.</i> , "The <i>Escherichia coli</i> Biotin Biosynthetic Enzyme Sequences Predicted from the Nucleotide Sequence of the bio Operon," <u>J. Biol. Chem.</u> , 263:19577-19585 (1988)
	C5	Smith, "In vitro Mutagenesis," <u>Ann. Rev. Genet.</u> , 19: 423-462 (1985)
	C6	Haima, <i>et al.</i> , "The Effect of Restriction on Shotgun Cloning and Plasmid Stability in <i>Bacillus subtilis</i> Marburg," <u>Mol. Gen. Genet.</u> , 209:335-342 (1987)
	C7	Maniatis, <i>et al.</i> , "Transformation of <i>Escherichia Coli</i> by Plasmid DNA," <u>Molecular Cloning</u> , Cold Spring Harbor Laboratory Press, New York, pp. 252-253 (1982)

EXAMINER	DATE CONSIDERED
Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

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